

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

09 December 1997 (09.12.97)

International application No.

PCT/GB97/01121

Applicant's or agent's file reference

BAILLIEH 01

International filing date (day/month/year)

23 April 1997 (23.04.97)

Priority date (day/month/year)

23 April 1996 (23.04.96)

Applicant

BAILLIE-HAMILTON, William, John

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

20 November 1997 (20.11.97)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

S. De Michiel

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

ROCK, Olaf, Colin
Rock & Company
Trelawn
Cassington, Witney
Oxford OX8 1DN
ROYAUME-UNI

Date of mailing (day/month/year) 13 March 1998 (13.03.98)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference BAILLIEH 01	
International application No. PCT/GB97/01121	International filing date (day/month/year) 23 April 1997 (23.04.97)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant	<input checked="" type="checkbox"/> the inventor	<input type="checkbox"/> the agent <input type="checkbox"/> the common representative
Name and Address BAILLIE-HAMILTON, William, John 6 Prestwood Terrace Bracknell Berks RG42 1XU UNITED KINGDOM	State of Nationality GB	State of Residence GB
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input type="checkbox"/> the person	<input type="checkbox"/> the name	<input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence
Name and Address BAILLIE-HAMILTON, William, John Fibre Optic Lamp Company Limited Cardiff Business Technology Center Senghenydd Road Cardiff CF2 4AY South Wales UNITED KINGDOM	State of Nationality GB	State of Residence GB
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary: THE POSTAL REGION OF THE AGENT ON THE DEMAND SHOULD READ : OXFORD.		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned	
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned	
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Athina Nickitas-Etienne Telephone No.: (41-22) 338.83.38
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/01121

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H01K1/30 F21V8/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H01K F21V G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 597 647 A (M.L.RISHTON) 3 August 1971	1, 2, 5, 8, 9, 12-15, 19-29, 32
Y	see the whole document	3, 5-7, 10, 13-16, 18, 34-36
Y	US 3 681 592 A (M.HUGELSHOFER) 1 August 1972 see the whole document	3, 5-7, 10, 13-16, 18, 34-36
X	US 2 362 175 A (H.SWANSON) 7 November 1944 see the whole document	1, 2, 4, 8, 9, 17, 19, 20, 22-25



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

21 July 1997

Date of mailing of the international search report

28/07/1997

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Malic, K

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/01121

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 304 939 A (HITACHI) 1 March 1989 see page 13; figures 4-6 ---	1, 11, 23, 33, 37
X	DE 41 27 100 A (C.ZEISS) 18 February 1993 see column 2 - column 3; figure 2 ---	1
A	US 5 103 381 A (A.K.UKE) 7 April 1992 -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 97/01121

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3597647 A	03-08-71	NONE	
US 3681592 A	01-08-72	NONE	
US 2362175 A	07-11-44	NONE	
EP 0304939 A	01-03-89	CA 1310531 A	24-11-92
		CN 1033698 A, B	05-07-89
		DE 3850623 D	18-08-94
		DE 3850623 T	27-10-94
		JP 1131506 A	24-05-89
		US 4946242 A	07-08-90
DE 4127100 A	18-02-93	NONE	
US 5103381 A	07-04-92	NONE	

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC	0 7 AUG 1998
WFO	PCT

Applicant's or agent's file reference BAILLIEH 01	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (PCT/IPEA/416)
International application No. PCT/GB97/01121	International filing date (day/month/year) 23/04/1997	Priority date (day/month/year) 23/04/1996
International Patent Classification (IPC) or national classification and IPC H01K1/30		
Applicant BAILLIE-HAMILTON WILLIAM JOHN		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 5 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☒ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 20/11/1997	Date of completion of this report 0 5. 08. 98
Name and mailing address of the IPEA/  European Patent Office D-80298 Munich Tel. (+49-89) 2399-0, Tx: 523656 epmu d Fax: (+49-89) 2399-4465	Authorized officer Frank, V Telephone No. (+49-89) 2399-2726 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB97/01121

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-25 as originally filed

Claims, No.:

1-37 as originally filed

Drawings, sheets:

1/6-6/6 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:

- ☐ the entire international application.
- ☒ claims Nos. 22 and 32.

because:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB97/01121

- ☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (*specify*):
- ☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 22 and 32 are so unclear that no meaningful opinion could be formed (*specify*):
- see separate sheet**
- ☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
- ☐ no international search report has been established for the said claims Nos. .

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	3,5-7,10,11,14,16-19,22,26-37
	No:	Claims	1, 2, 4, 8, 9, 12, 13, 15, 20, 21 and 23-25
Inventive step (IS)	Yes:	Claims	18,19,22,26-32
	No:	Claims	1-17, 20, 21, 23-25 and 33-37
Industrial applicability (IA)	Yes:	Claims	1-37
	No:	Claims	

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB97/01121

To point III:

1. Claims **22 and 32** contain references to the description and/or the drawings. According to Rule **6.2(a)** PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

To point V:

Reference is made to the following documents:

D1 = US-A-3 597 647

D2 = US-A-3 681 592

D3 = US-A-2 362 175

D4 = EP-A-0 304 939

1. Document **D1** discloses (cf. Figures 1-4 and 8-11 and the corresponding text) a light emitting device comprising the features of **claims 1, 2, 4, 8, 9, 12, 13, 15, 20, 21 and 23-25**. In particular, Figure 3 shows refracting means according to claims 4 and 15. In consequence, the subject-matter of these claims is no new.
2. **Claim 33** does not involve an inventive step. A light guide array is known from **D3** (cf. Figures 1-4). Its use with the light emitting devices known from **D1** is an obvious alternative for a skilled person.
3. Dependent **claims 3, 5-7, 10, 11, 14, 16, 17 and 34-37** do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows:

Claims 3, 5-7, 14, 16: an opaque containment, heat sinks forming an integral part of the containment and in intimate contact with the light conducting element and reflecting means are known from the prior art (cf. **D2**, Figures 1 and 3).

Claims 10, 11, 17 and 34 to 36: relate to slight constructional changes which come within the scope of the customary practice followed by persons skilled in the

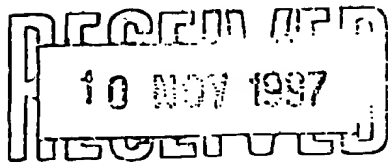
art, especially as the advantages thus achieved can be readily contemplated in advance.

Claim 37: the mere provision of a plurality of devices does not involve an inventive step (see for example **D4**, Figure 6).

To point VII:

1. Independent claims **1, 26 and 33** are not in the two-part form in accordance with Rule **6.3(b)** PCT.
2. The features of the claims are not provided with reference signs placed in parentheses (Rule **6.2(b)** PCT).
3. Contrary to the requirements of Rule **5.1(a)(ii)** PCT, the relevant background art disclosed in the documents **D1-D4** are not mentioned in the description, nor are these documents identified therein.

PATENT COOPERATION TREATY



PCT

From the INTERNATIONAL BUREAU

To:

ROCK, Olaf, Colin
Rock & Company
Trelawn
Cassington, Witney
Oxford OX8 1DN
ROYAUME-UNI

----- NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

Date of mailing (day/month/year) 30 October 1997 (30.10.97)		IMPORTANT NOTICE	
Applicant's or agent's file reference BAILLIEH 01			
International application No. PCT/GB97/01121	International filing date (day/month/year) 23 April 1997 (23.04.97)	Priority date (day/month/year) 23 April 1996 (23.04.96)	
Applicant BAILLIE-HAMILTON, William, John			

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:
AU, BR, CA, CN, EP, IL, JP, KP, KR, NO, PL, SK, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:
AL, AM, AT, AZ, BA, BB, BG, BY, CH, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, KE, KG, KZ, LC, LK, LR, LS,
LT, LU, LV, MD, MG, MK, MN, MW, MX, NZ, PT, RO, RU, SD, SE, SG, SI, TJ, TM, TR, TT, UA, UG, UZ, VN

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 30 October 1997 (30.10.97) under No. WO 97/40520.

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

PCT

01 Rec'd PCT/PTO

REQUEST

09/17

21 Oct 1998

1583

International Filing Date

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum) BAILLIEH 01

Box No. I TITLE OF INVENTION

Light Emitting Device and Arrays Thereof.

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.)

BAILLIE-HAMILTON William John
6 Prestwood Terrace
Bracknell
Berks RG42 1XU
GB

☒ This person is also inventor.

Telephone No.

01344 642497

Facsimile No.

01344 642497

Teleprinter No.

--

State (i.e. country) of nationality:

GB

State (i.e. country) of residence:

GB

This person is applicant
for the purposes of:all designated
Statesall designated States except
the United States of Americathe United States
of America onlythe States indicated in
the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (i.e. country) of residence if no State of residence is indicated below.)

This person is:

☐ applicant only☐ applicant and inventor☐ inventor only (If this check-box
is marked, do not fill in below.)

State (i.e. country) of nationality:

State (i.e. country) of residence:

This person is applicant
for the purposes of:all designated
Statesall designated States except
the United States of Americathe United States
of America onlythe States indicated in
the Supplemental Box☐ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:



agent



common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

ROCK Olaf Colin
Rock and Company
Trelawn, Cassington
Witney, Oxford OX8 1DN
GB

Telephone No.

01865 880389

Facsimile No.

01865 882786

Teleprinter No.

--

☐ Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Sheet No. 2

Box No.V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

Regional Patent

- ☐ AP ARIPO Patent: KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☐ EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☐ OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

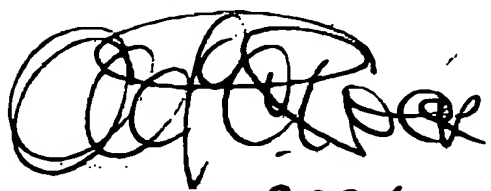
National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> LU Luxembourg |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> LV Latvia |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> MD Republic of Moldova |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> MG Madagascar |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina | <input checked="" type="checkbox"/> MN Mongolia |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> MW Malawi |
| <input checked="" type="checkbox"/> BG Bulgaria | <input checked="" type="checkbox"/> MX Mexico |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> NO Norway |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> RO Romania |
| <input checked="" type="checkbox"/> CU Cuba | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> EE Estonia | <input checked="" type="checkbox"/> SI Slovenia |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> GB United Kingdom | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> GE Georgia | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> IL Israel | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> IS Iceland | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> JP Japan | <input checked="" type="checkbox"/> US United States of America |
| <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> KG Kyrgyzstan | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea | |
| <input type="checkbox"/> KR Republic of Korea | |
| <input checked="" type="checkbox"/> KZ Kazakstan | |
| <input checked="" type="checkbox"/> LC Saint Lucia | |
| <input checked="" type="checkbox"/> LK Sri Lanka | |
| <input checked="" type="checkbox"/> LR Liberia | |
| <input checked="" type="checkbox"/> LS Lesotho | |
| <input checked="" type="checkbox"/> LT Lithuania | |

Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet:

- ☐
- ☐
- ☐
- ☐

In addition to the designations made above, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except the designation(s) of
 The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

Box No. VI PRIORITY CLAIM		Further priority claims are indicated in the Supplemental Box <input type="checkbox"/>	
The priority of the following earlier application(s) is hereby claimed:			
Country (in which, or for which, the application was filed)	Filing Date (day/month/year)	Application No.	Office of filing (only for regional or international application)
item (1) GB	23 April 1997	960838.1	GB
item (2) GB	4 March 1997	9704423.4	GB
item (3) GB	4 April 1997	9706862.1	GB
<i>Mark the following check-box if the certified copy of the earlier application is to be issued by the Office which for the purposes of the present international application is the receiving Office (a fee may be required):</i>			
<input checked="" type="checkbox"/> The receiving Office is hereby requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):			
Box No. VII INTERNATIONAL SEARCHING AUTHORITY			
Choice of International Searching Authority (ISA) (If two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA /			
Earlier search Fill in where a search (international, international-type or other) by the International Searching Authority has already been carried out or requested and the Authority is now requested to base the international search, to the extent possible, on the results of that earlier search. Identify such search or request either by reference to the relevant application (or the translation thereof) or by reference to the search request: Country (or regional Office): Date (day/month/year): Number:			
Box No. VIII CHECK LIST			
This international application contains the following number of sheets: 1. request : 3 sheets 2. description : 25 sheets 3. claims : 6 sheets 4. abstract : 1 sheets 5. drawings : 6 sheets Total : 41 sheets		This international application is accompanied by the item(s) marked below: 1. <input type="checkbox"/> separate signed power of attorney 5. <input type="checkbox"/> fee calculation sheet 2. <input checked="" type="checkbox"/> copy of general power of attorney 6. <input type="checkbox"/> separate indications concerning deposited microorganisms 3. <input type="checkbox"/> statement explaining lack of signature 7. <input type="checkbox"/> nucleotide and/or amino acid sequence listing (diskette) 4. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): 8. <input type="checkbox"/> other (specify):	
Figure No. _____ of the drawings (if any) should accompany the abstract when it is published.			
Box No. IX SIGNATURE OF APPLICANT OR AGENT			
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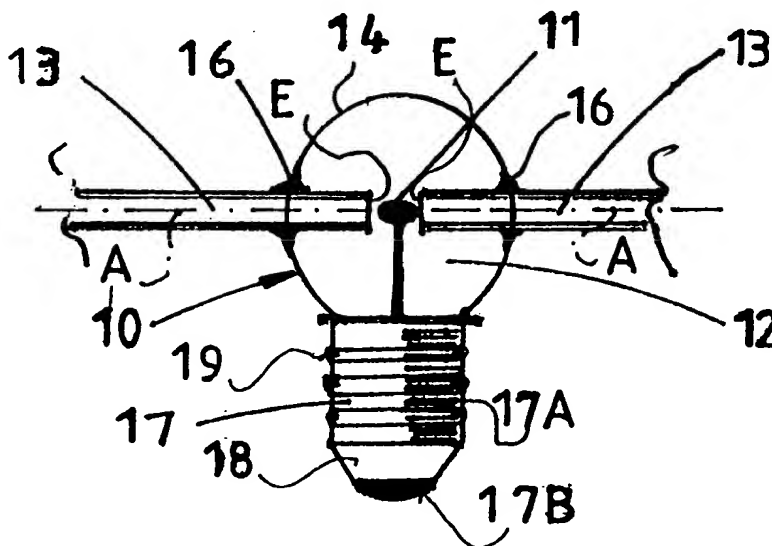
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(57) Abstract

A light outputting device comprises: a containment (14) for housing an element for emitting light (11); at least one axially extending light conducting element (13) having an axial length substantially greater than its width transverse the axis; the light conducting element (13) being aligned axially with the element for emitting light (11) by means of the containment (14) or an extension thereof; the, or each, light conducting element (13) having a light input region such as an end face whereby light generated by the element for emitting light (11) is caused to pass axially into the, or each, light conducting element (13) by way of its associated light input region. Typically the axial length of the light conducting element (13) is at least three times its width transverse the axis. The containment (14) or an extension thereof serves to locate the element for emitting light (11) closer to the light input region of the, or each, light conducting element (13) than to the major part of the containment (14) remote from the light input region or regions.

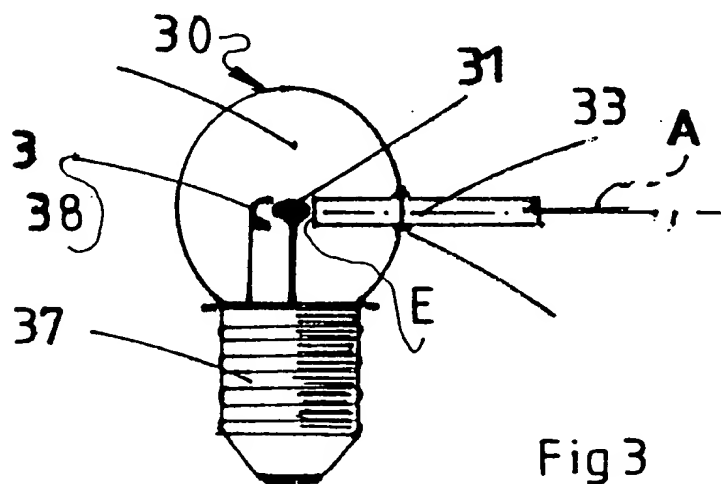
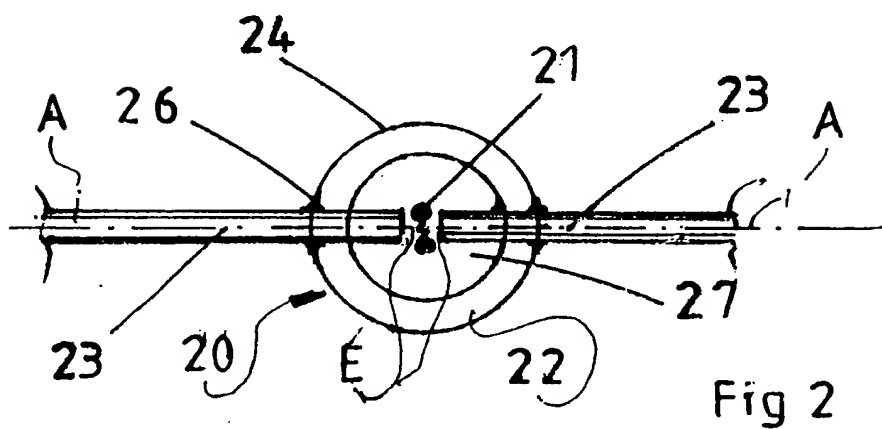
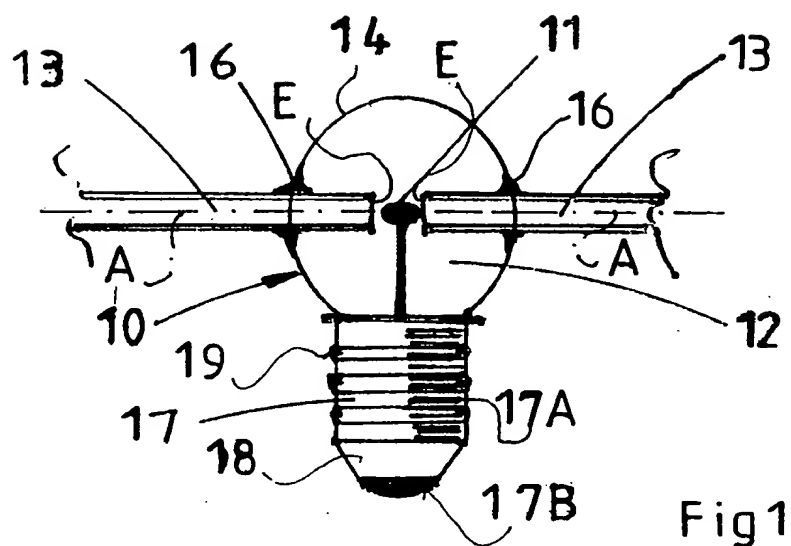


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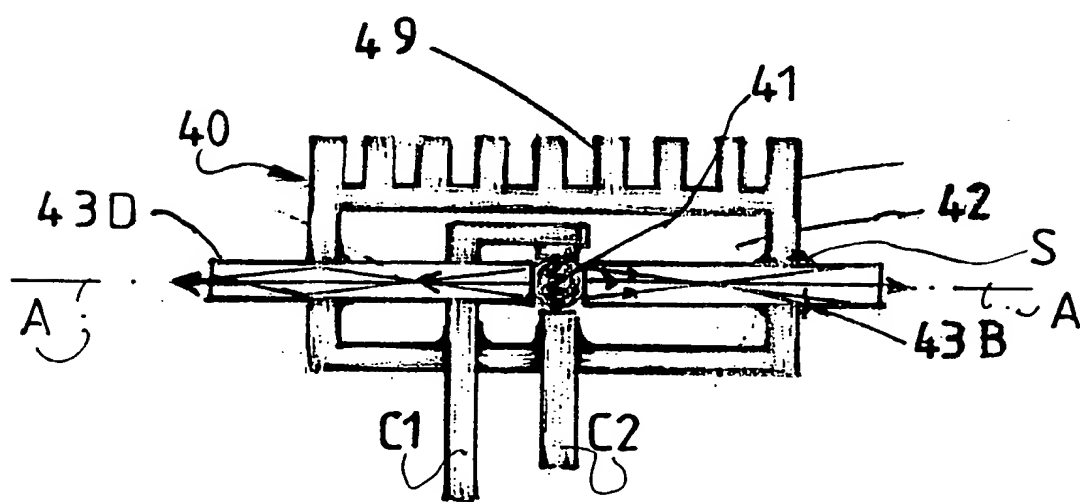
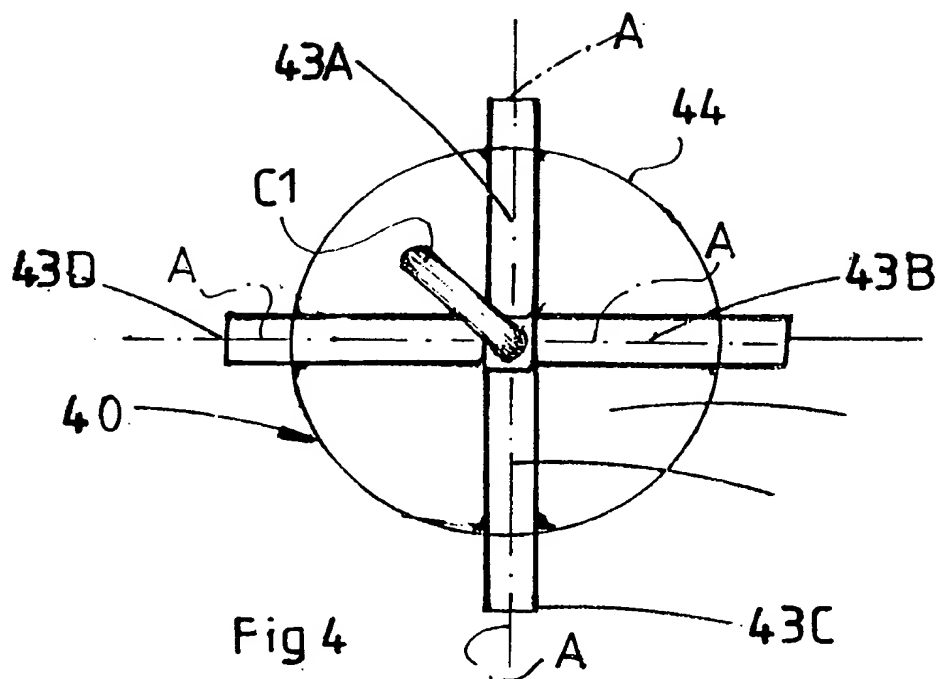
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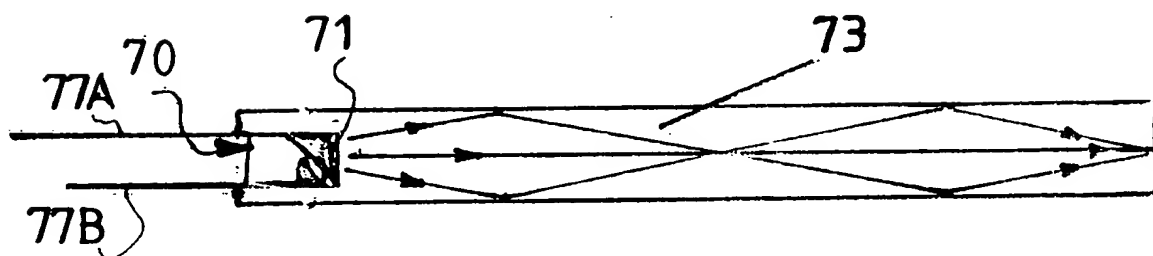
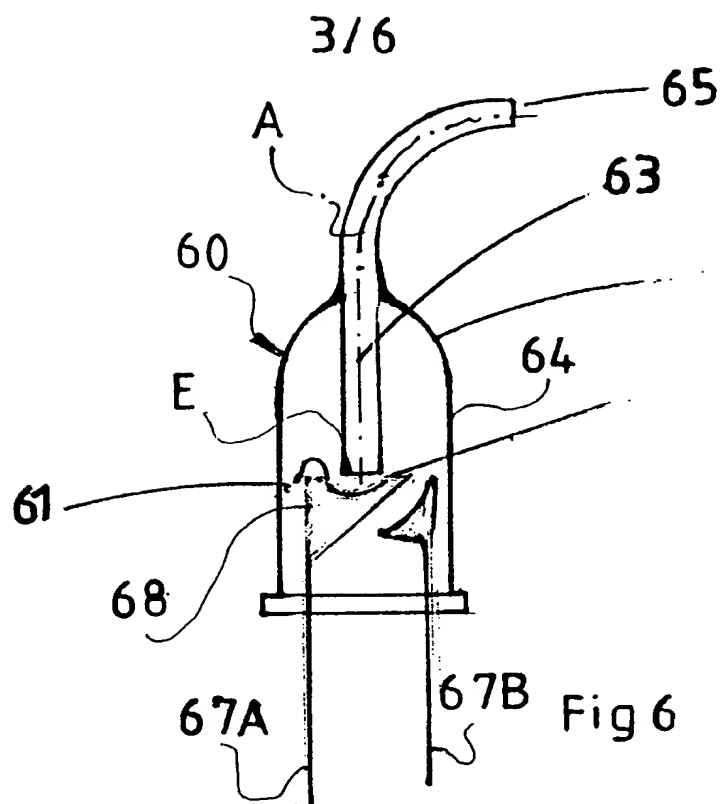
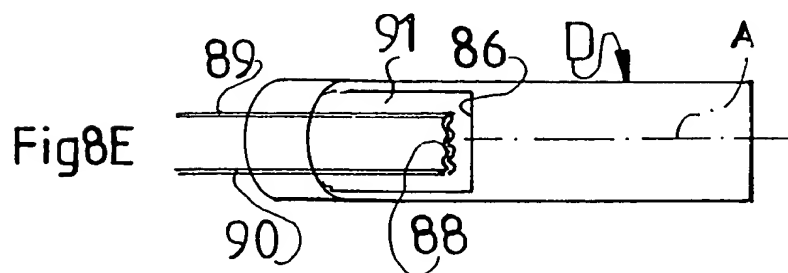
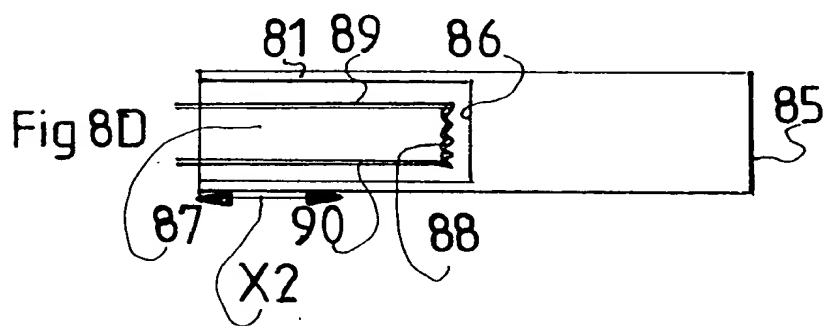
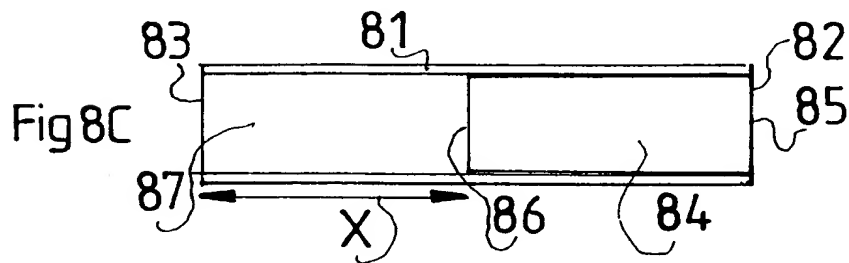
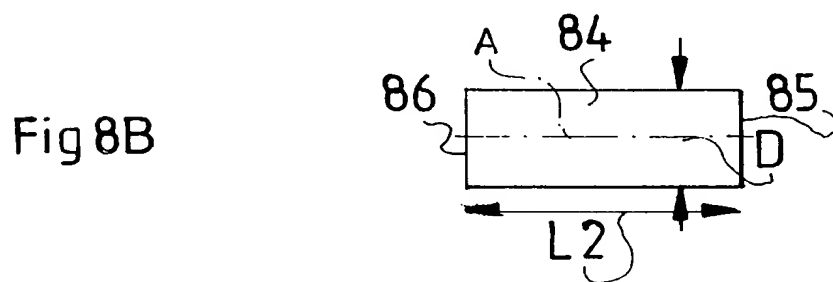
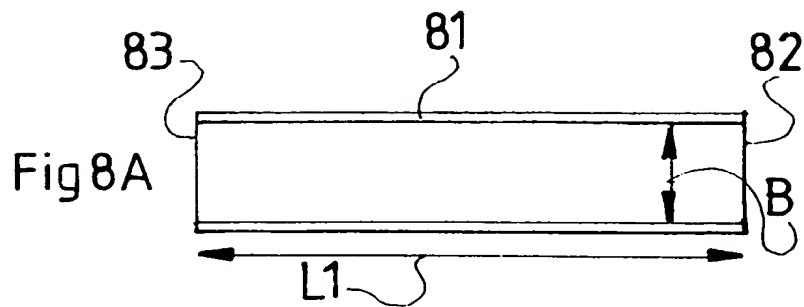
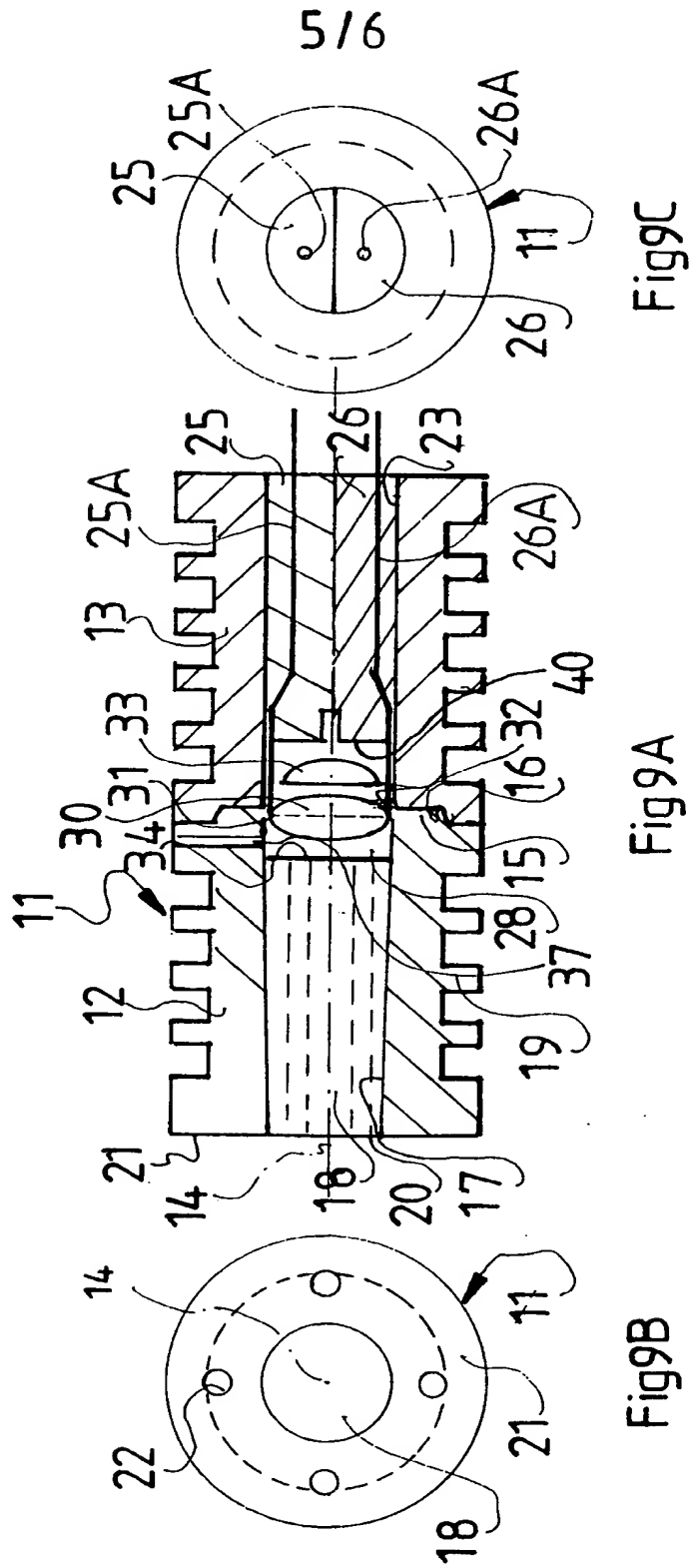


Fig 7

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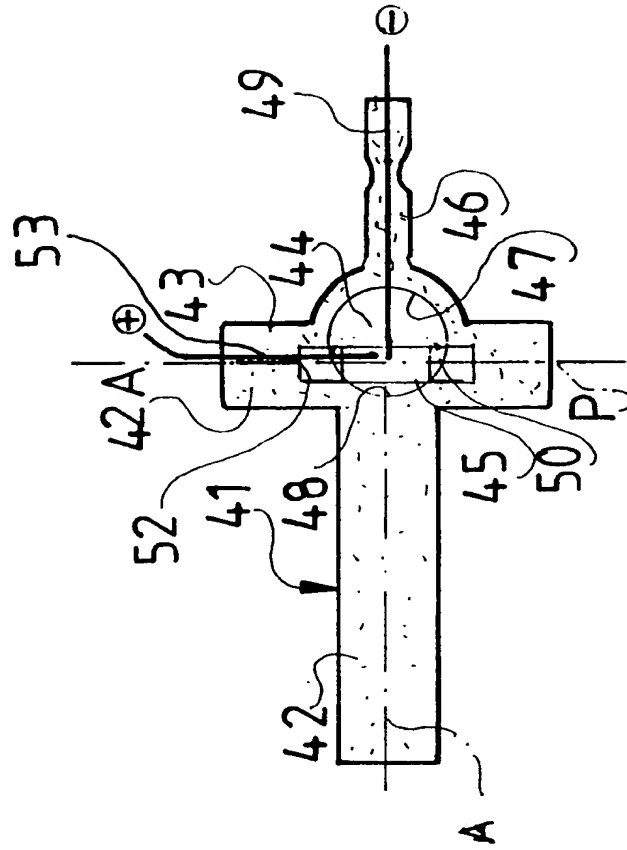


Fig10